probes. The method comprises separately providing a control probe or stilt and an oligomer test probe at each feature location on the microarray, such that each feature comprises a control probe and a test probe. The control probe comprises a sequence of nucleic acids unique to the control probe. The control probe is labeled with a label that emits a control signal. The oligomer test probe is labeled with a test label that emits a test signal distinguishable from the control signal. When the microarray is hybridized and interrogated, the control signal indicates the location of each and every feature on the array and the test signal indicates the location of hybridized oligomer test probes.

A1 cont

IN THE SPECIFICATION

Please replace the second full paragraph on page 4, lines 11-17 with the following replacement paragraph. The amendment to the paragraph is illustrated in the marked-up version in the attached Appendix, Part II at the end of this document.

As mentioned above, the density of probes on a microarray chip is ever increasing so that more genes can be analyzed at one time and thus, saves sample and reduces costs. Achieving smaller and more compact arrays will depend heavily on the manufacturing equipment and processing. It should be appreciated that as probe arrays for gene analysis become more densely packed, very small errors in probe placement more severely impact the accuracy of the analysis of the hybridization results.

A2

Further, please replace Table 1 on page 24 of the specification with the following replacement Table 1. A marked-up version of Table 1 is provided in the attached Appendix, Part II at the end of this document. Words that are underlined below were underlined in the specification as filed. The marked-up version illustrates the as-filed underlined words in bold print as a temporary measure only to avoid confusion with the words that are added using underlining.